

FIG. 1A

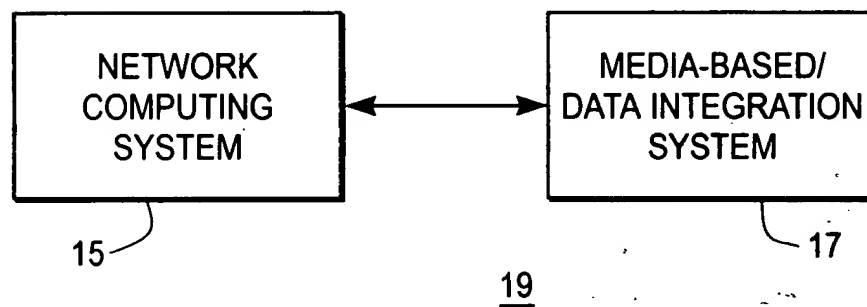


FIG. 1B

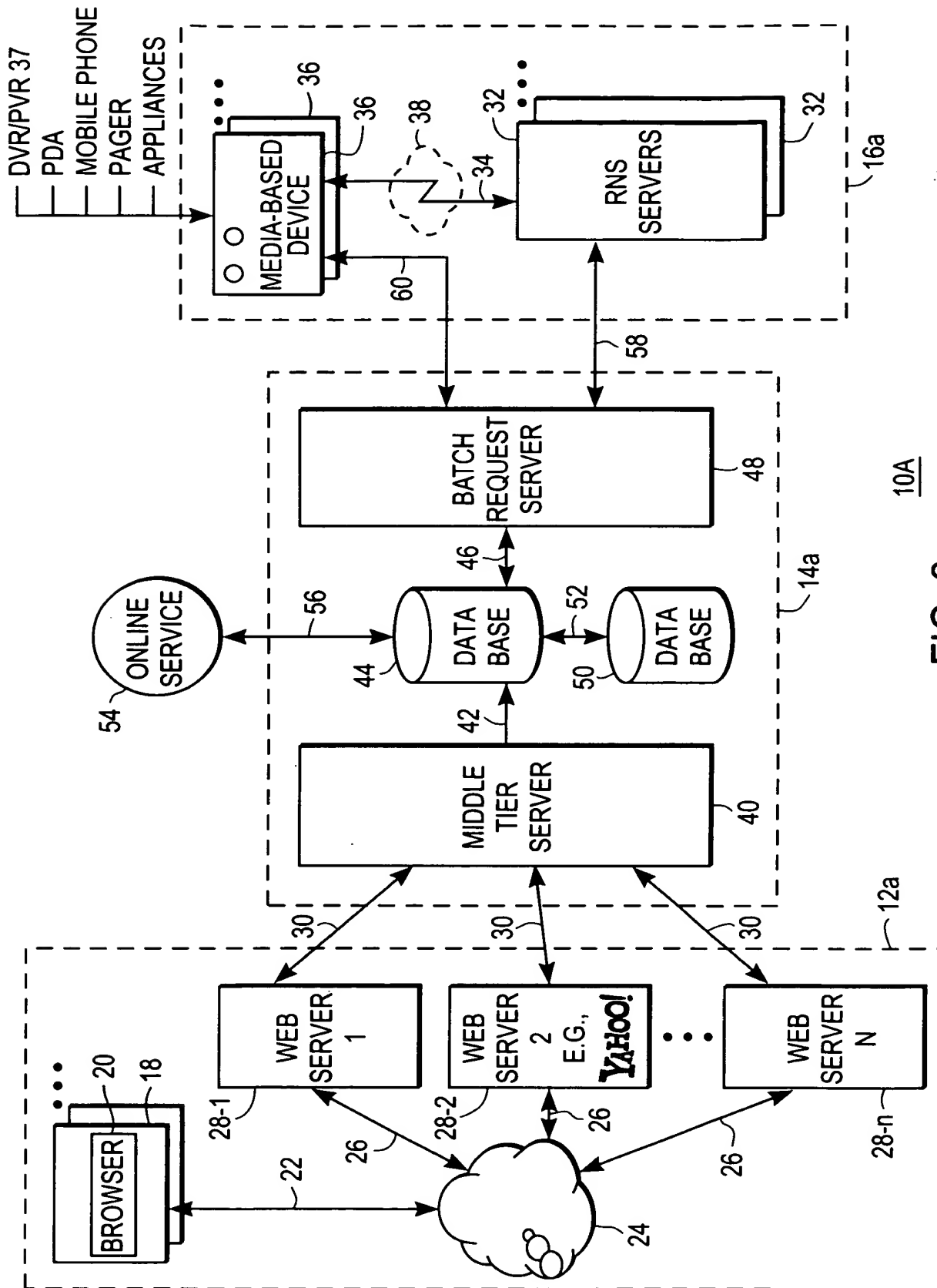


FIG. 2

10A

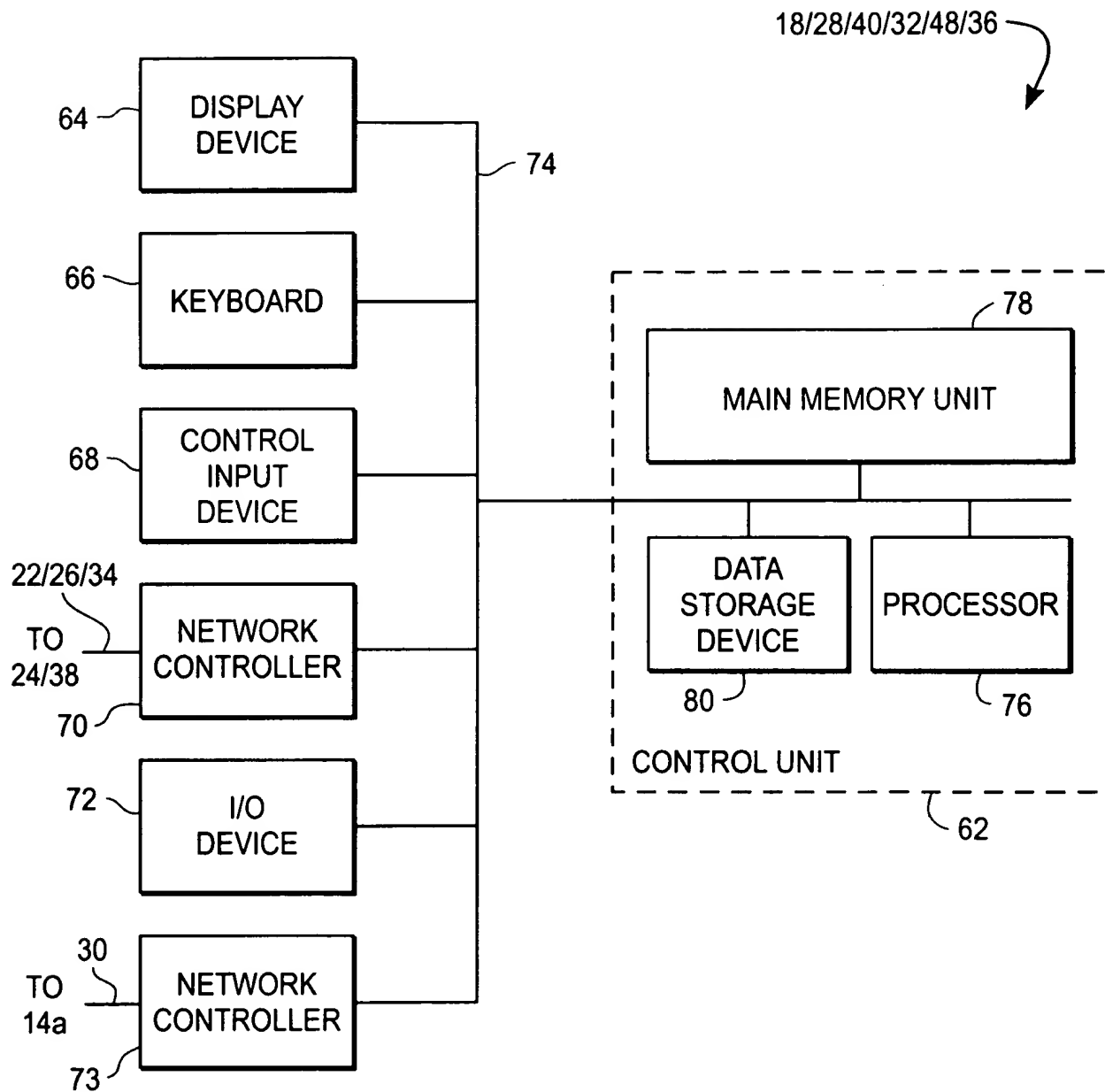


FIG. 3

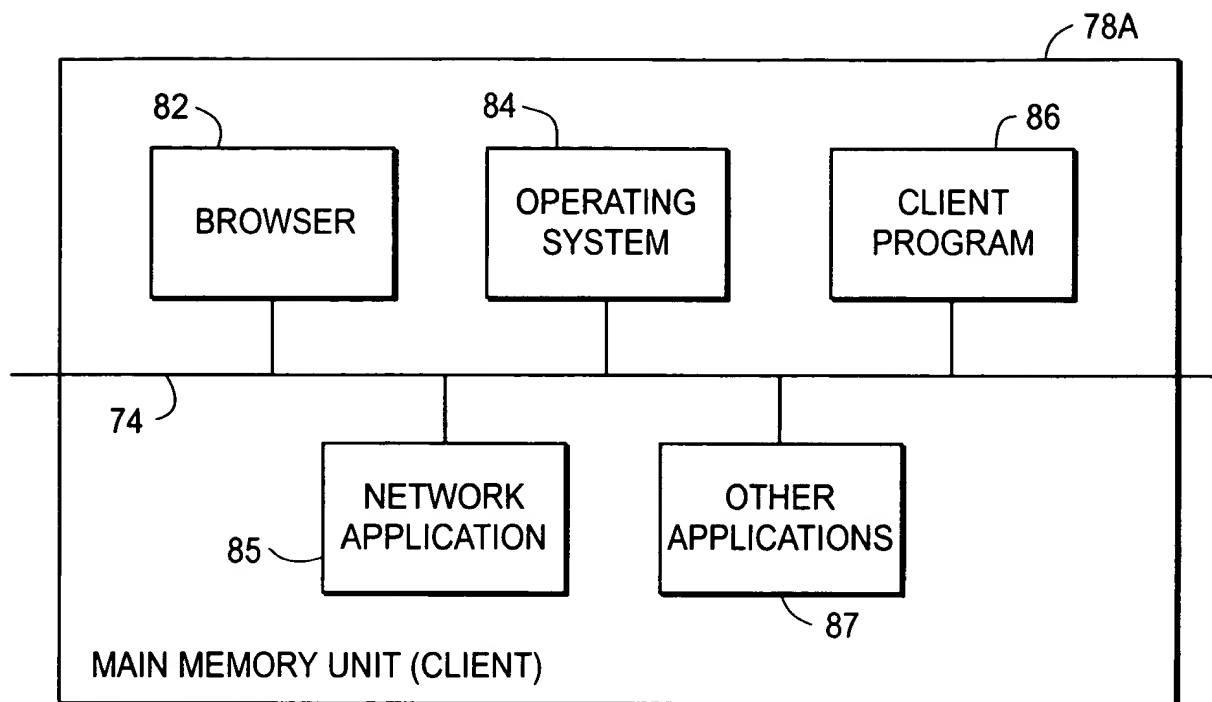


FIG. 4A

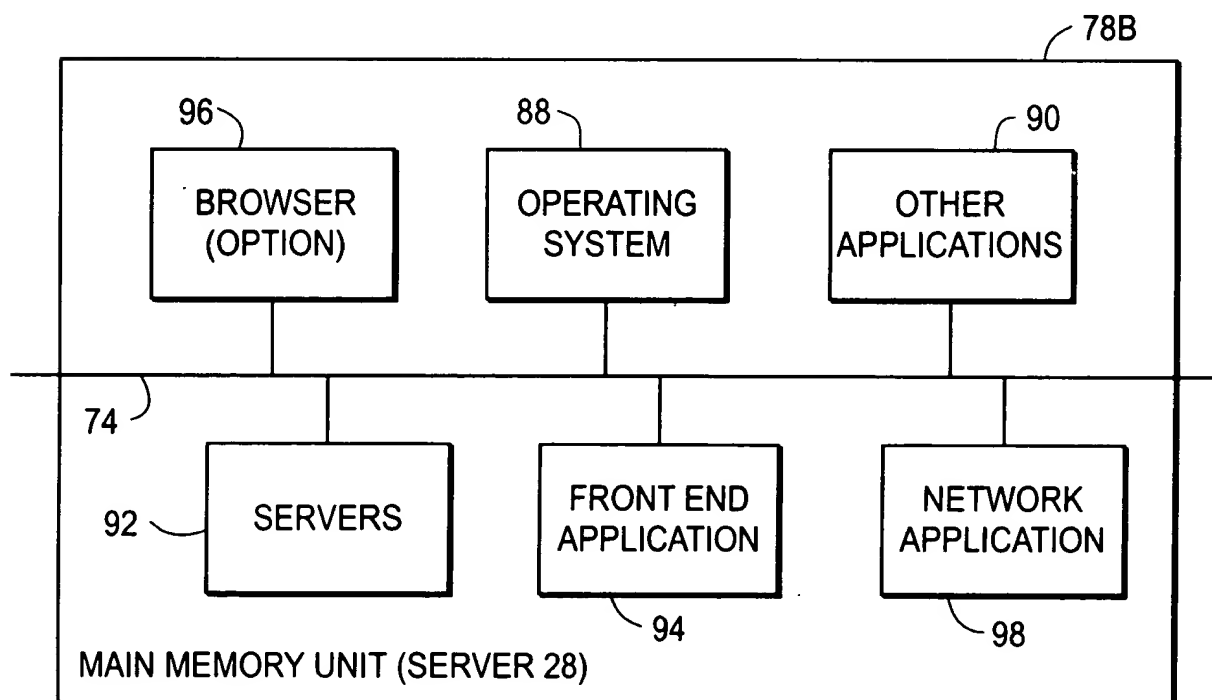


FIG. 4B

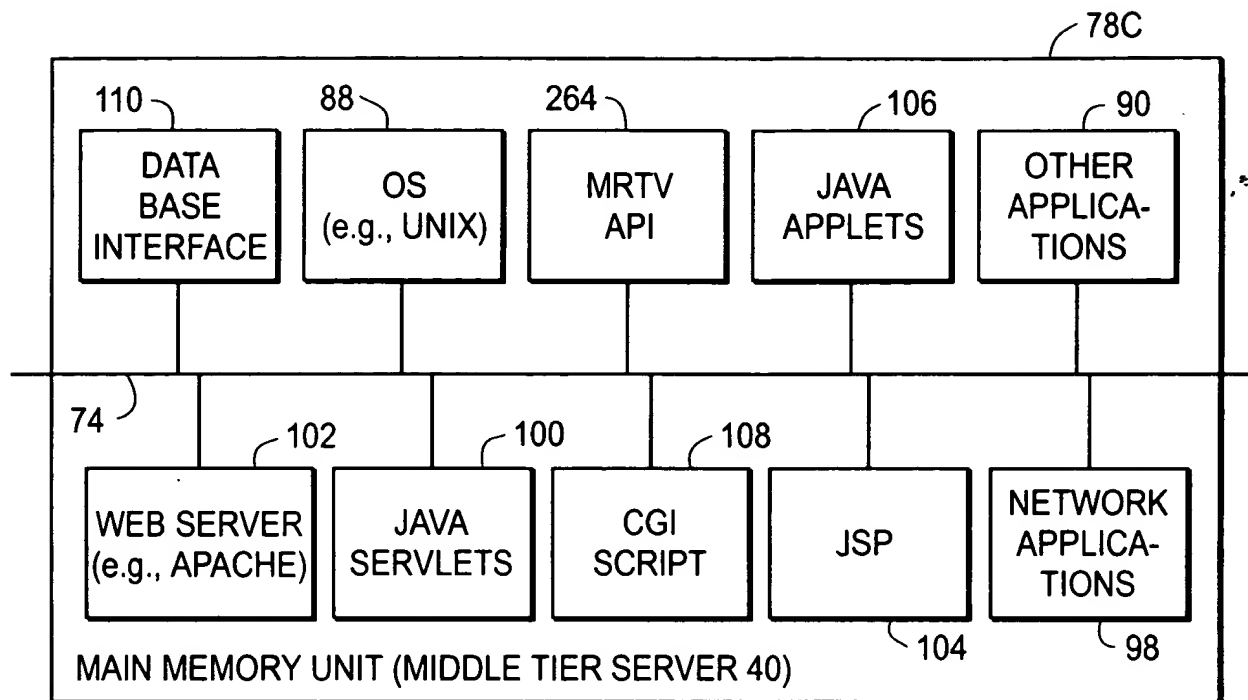


FIG. 4C

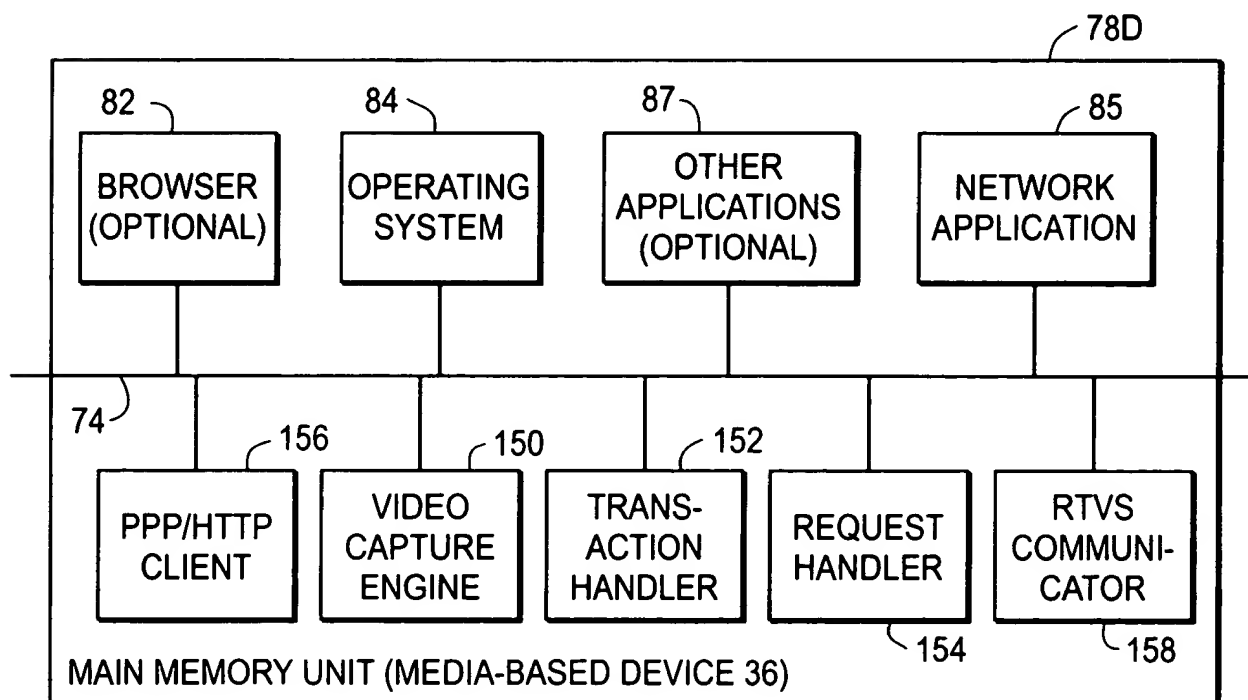


FIG. 4D

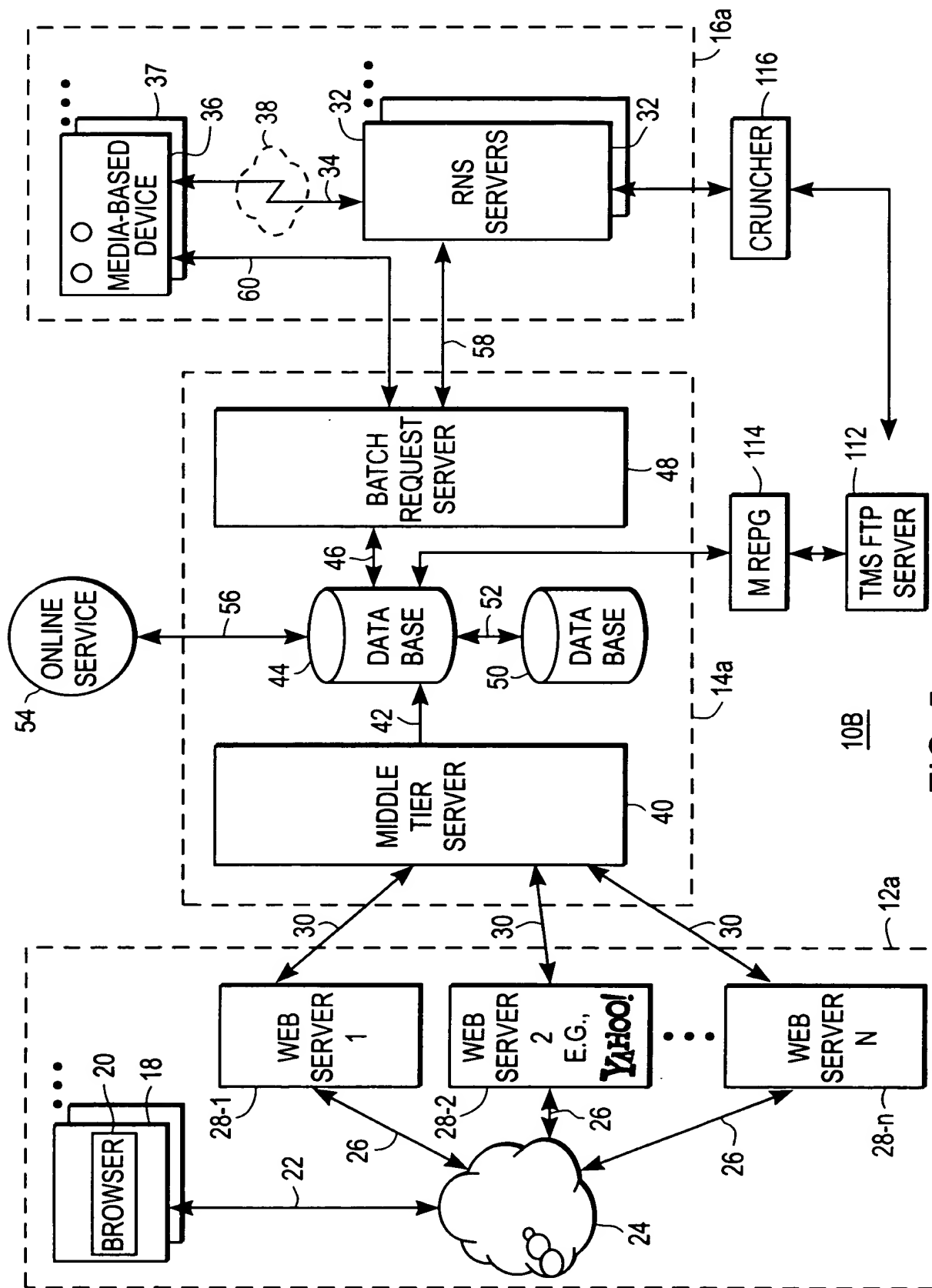


FIG. 5

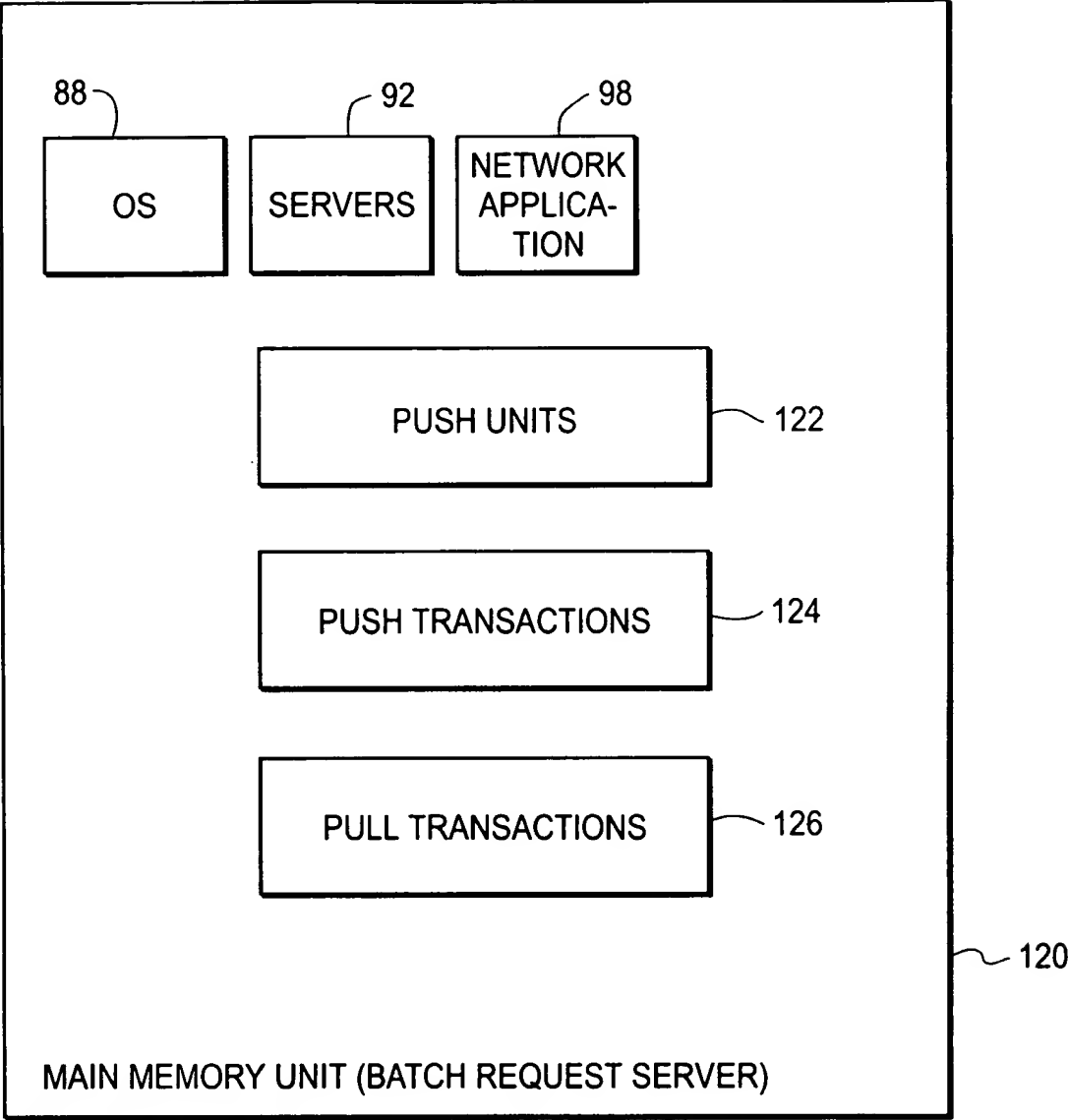


FIG. 6

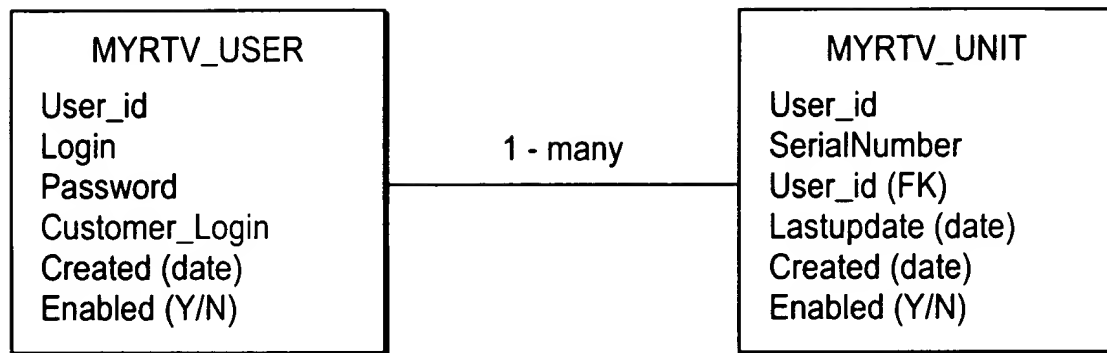


FIG. 7

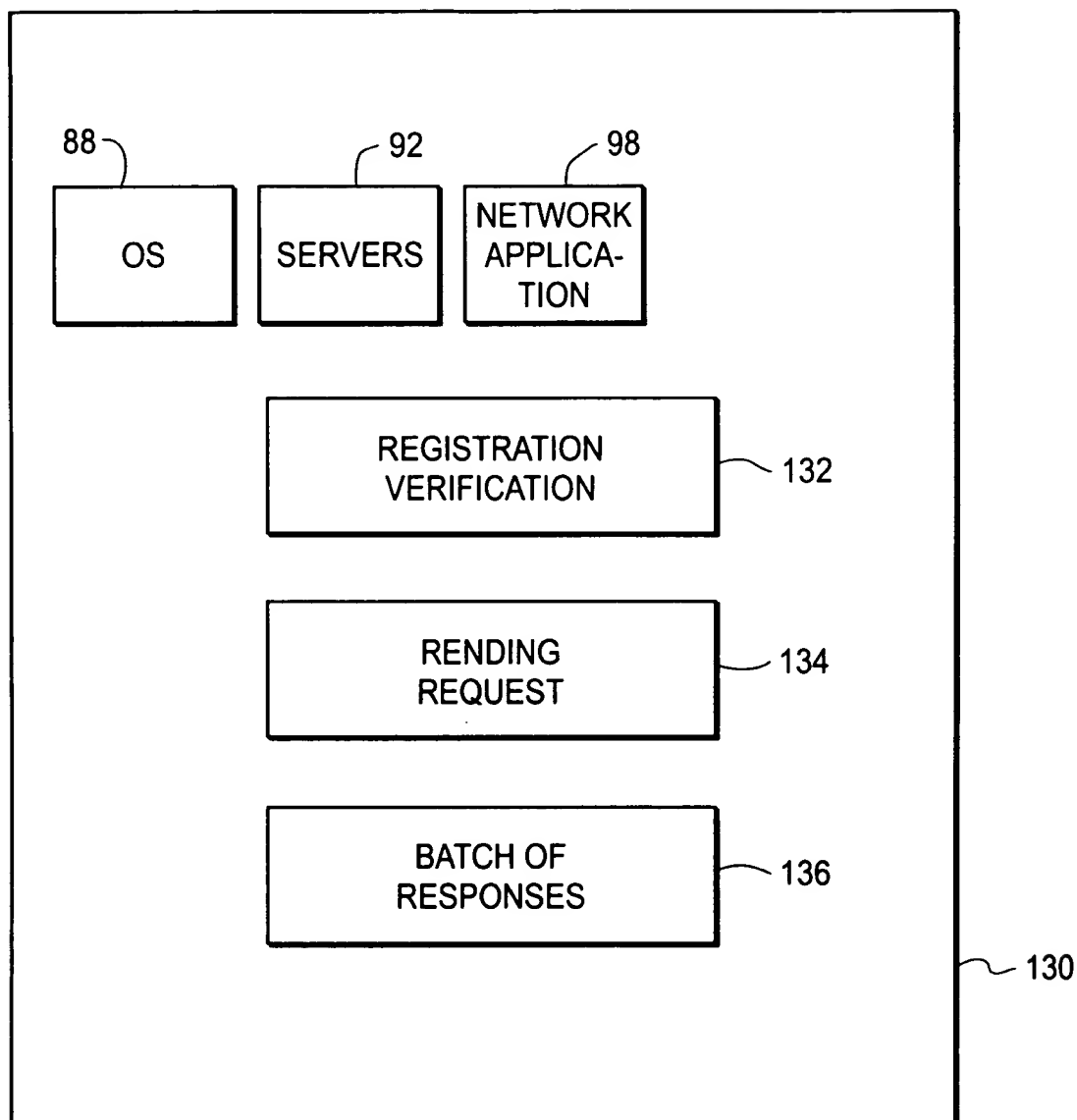


FIG. 8

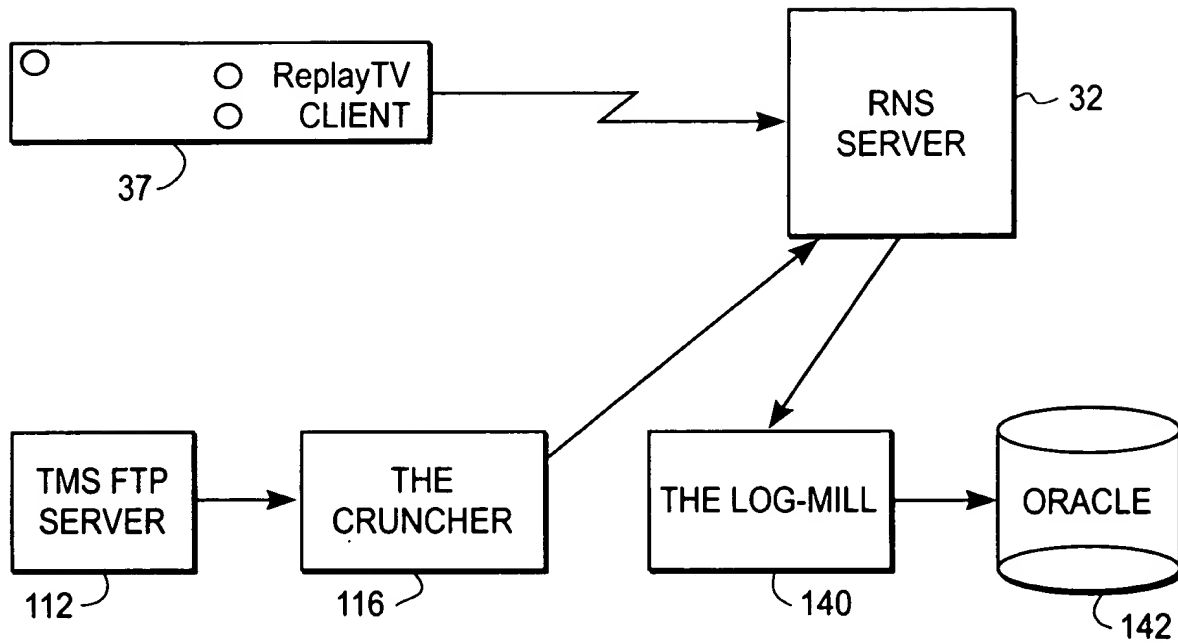


FIG. 9

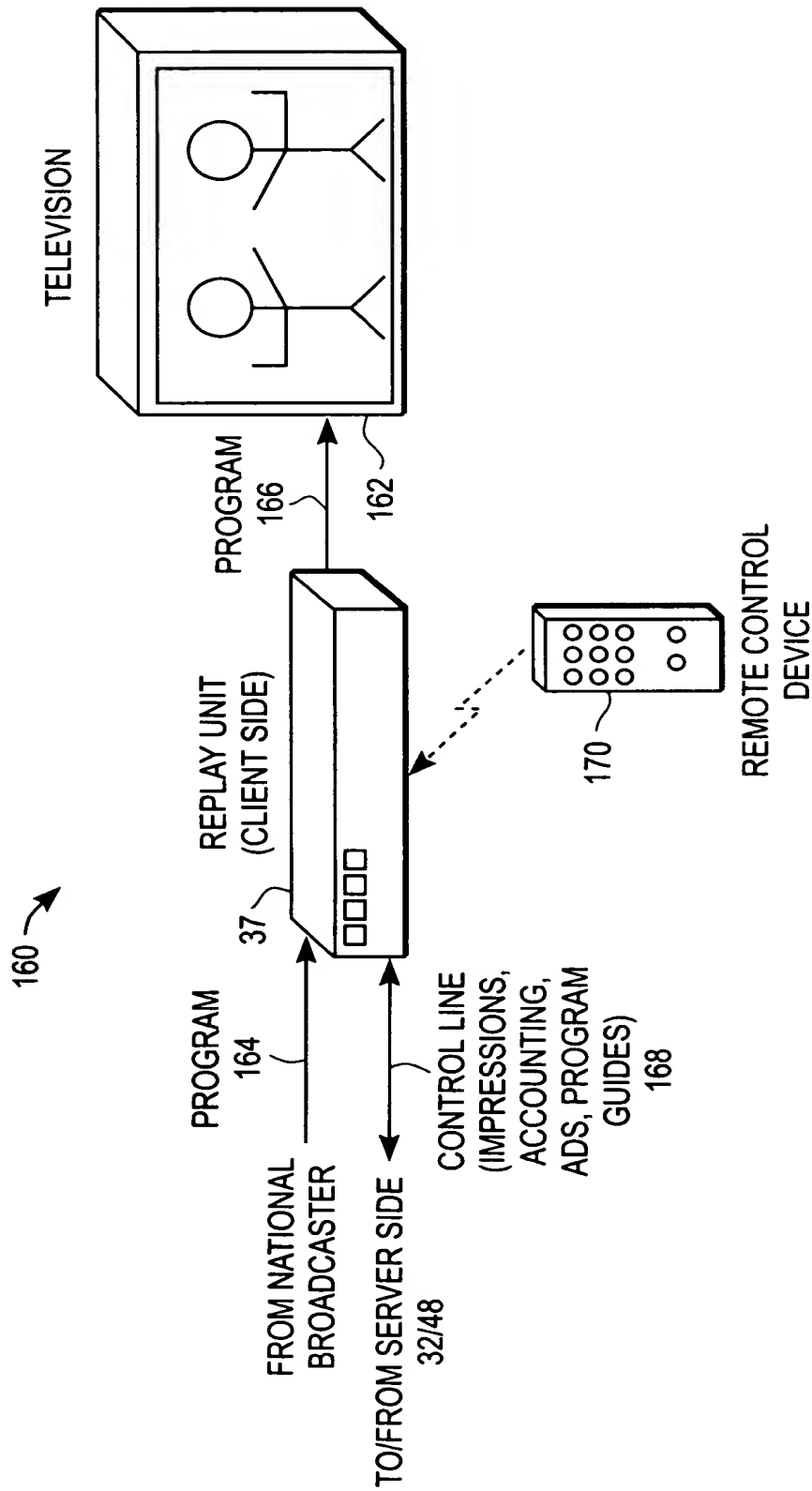


FIG. 10

my (r) replaytv®
marketing/promotional information

user name:

password:

☐ remember my password [I forgot my password](#)

Are you a new user to the myreplaytv webpage?

[Help](#) [Contact us](#)

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184

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FIG. 11

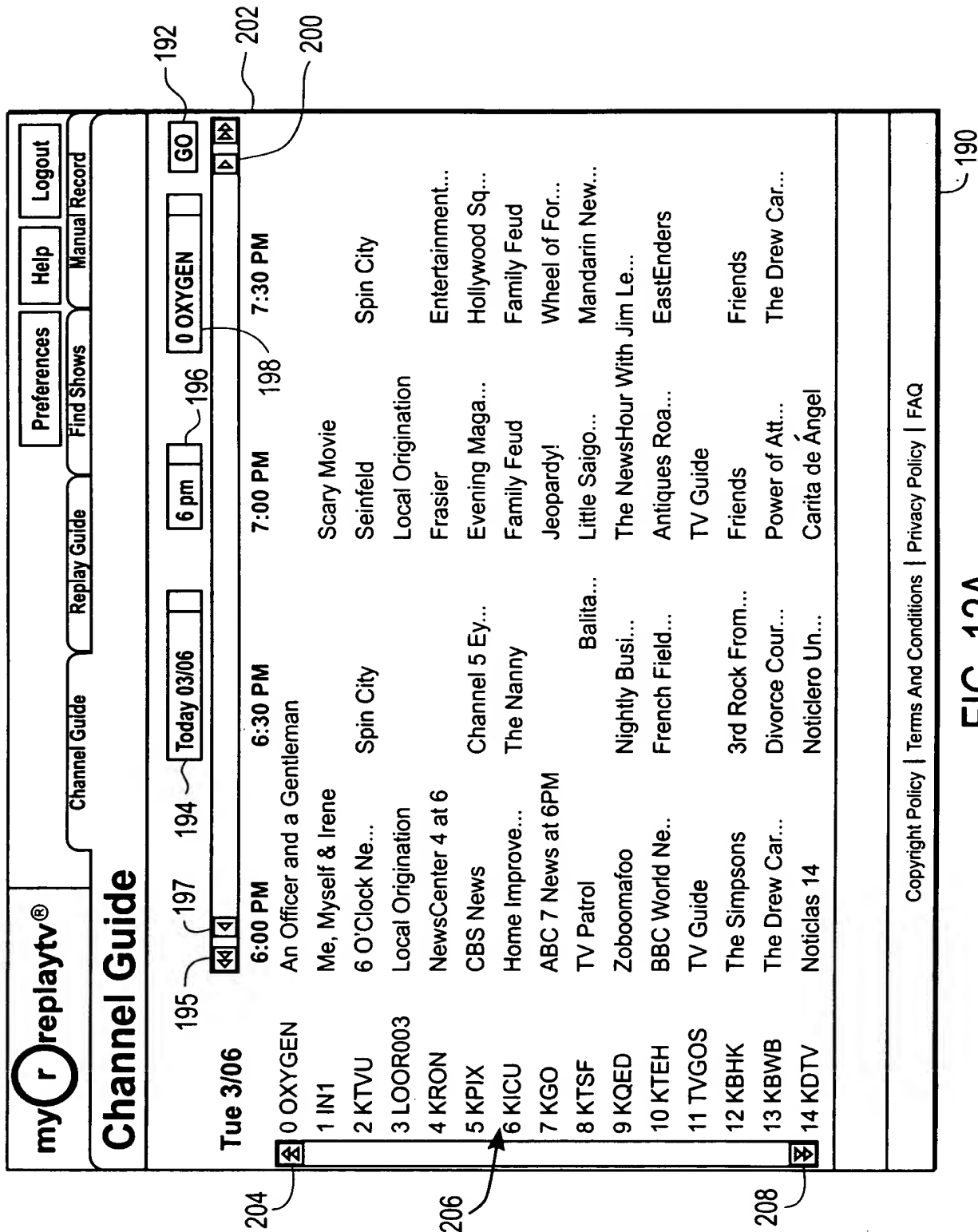


FIG. 12A

| | | | | |
|-------------------------|----------|----------------|--------|---------|
| View description | 2 KTVU ▾ | yesterday 8/17 | 4 pm ▾ | 1-15 ▾ |
| Record ● | 4 KRON | today 8/18 ▾ | 5 pm | 16-30 |
| Record all episodes ●● | 5 KPIX | Sat 8/19 | 6 pm | 31-45 |
| Record - change options | 6 FAM | Sun 8/20 | 7 pm | 46-60 |
| Find all episodes | 7 KGO | Mon 8/21 | 8 pm | 61-75 |
| Close | 8 KRCB | Tue 8/22 | 9 pm | 76-90 |
| | 9 KQED | Wed 8/23 | 10 pm | 91-105 |
| | 10 KDTV | Thu 8/24 | 11 pm | 106-120 |
| | 11 KICU | Fri 8/25 | 12 am | 121-145 |
| | 12 KBHK | | | 146- |
| | 13 KBWB | | | |
| | 14 CNN | | | |
| | 15 DISN | | | |
| | 16 CN | | | |

| | |
|--------------------------|--|
| View description | |
| Record future episodes ● | |
| Record + change options | |
| Find all episodes | |
| Why can't I record? | |
| Close | |

| | |
|-----------------------|--|
| View description | |
| Find all episodes | |
| Turn off recording | |
| Change record options | |
| Close | |

FIG. 12B

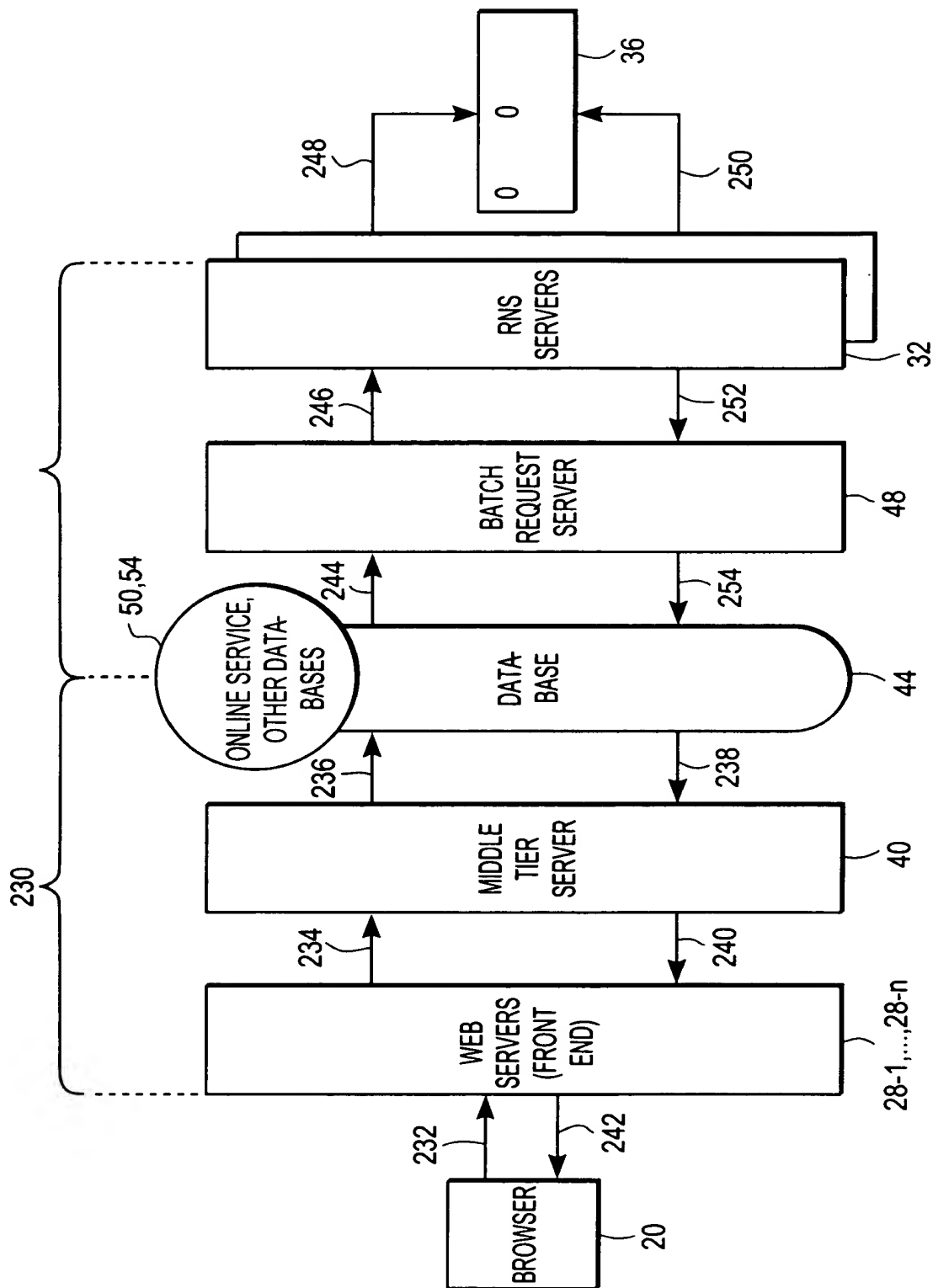


FIG. 13A

SEQUENCE DIAGRAM

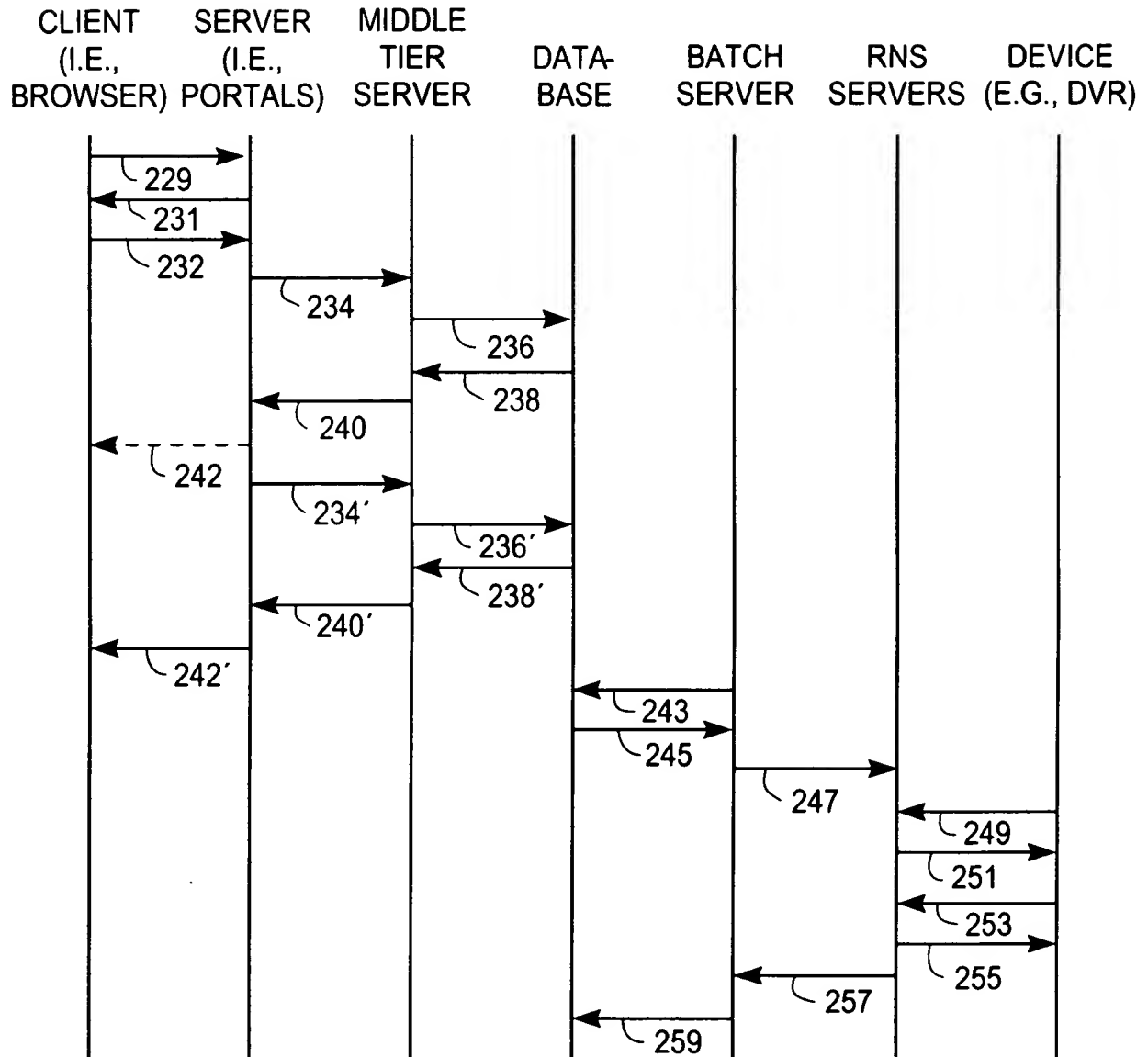


FIG. 13B

| API Routine | Function |
|------------------|---|
| CreateAccount | Creates an account for a new user based on the information received |
| Login | Tries to authenticate a user based on the input username and password combination |
| GetProfile | Returns the profile of the user and his units based on his userid |
| AddRequest | Adds a request to the unit's list of pending requests based on a set of request parameters, and returns the full status of the unit and of the pending requests, including those for recording specific show(s) and deleting recorded show(s) |
| DeleteRequest | Delete a request from the user list of pending requests |
| GetReplayGuide | Returns the Replay Guide of the unit as saved in the appropriate database for the specified unit |
| GetChannelLineUp | Returns the channel lineup of the unit based on the unit's settings |
| ChangePassword | Lets the user change his password |
| GetEPG | Returns the current electronic program guide for the unit based on the settings of the unit |
| ShowGuide | Returns detailed information about a specified show or search show details for particular shows based on criteria given as parameters |

FIG. 14

| API Routine | Input Parameters | Output Files (Corresponding XML Elements) |
|------------------|--|--|
| CreateAccount | firstname, lastname, address1, address2, city, state, zipcode, serial number, login, password, creator | ACCOUNT.XML REPLAYERERROR.XML |
| Login | login, password | ACCOUNT.XML REPLAYERERROR.XML |
| GetProfile | userid | PROFILE.XML (USERINFO, UNITINFO-I) REPLAYERERROR.XML |
| AddRequest | userid, unitid, reqtype(none, show, theme, update) reqtype=show: showtime(single, repeat, manual single, manual repeat), headendid, tmsid, device, starttimegmt, name, durationinminutes, inputsource, quality, guaranteedrecord, numepisodes, weekdayflags, earlystartminutes, showguarminutes reqtype=theme: searchterm, searchflags, suzukid, durationinminutes, quality, guaranteedrecord reqtype=update: updatetype(deleteshow, preserveshow, deletechannel), channelid, showid | UNITSTATUS.XML (UNITINFO, REQUESTSTATUS-I) REPLAYERERROR.XML *Note: REQUESTSTATUS Result=(PENDING, SENT, SUCCESS, GENERAL FAILURE, SCHEDULEFAILURE, ROOMFAILURE) |
| DeleteRequest | userid, unitid, requestid | DELETERESULT.XML, REPLAYERERROR.XML |
| GetReplayGuide | userid, unitid | GUIDE.XML (REPLAYCHANNEL-I), REPLAYERERROR.XML *Note: REPLAYCHANNEL Type=(SINGLE, SINGLEMANUAL, REPEAT, REPEATMANUAL, THEME, THEMEEXACT, ZONE) |
| GetChannelLineUp | userid, unitid | CHANNELLINEUP.XML (CHANNEL-I), REPLAYERERROR.XML |
| ChangePassword | userid, currentpassword, newpassword | ACCOUNT.XML, REPLAYERERROR.XML |
| GetEPG | userid, unitid, starttimegmt, durationinminutes, startchannel, channelcount | XML file based on tvguide.dtd & tvprograms.dtd REPLAYERERROR.XML |
| ShowGuide | userid, unitid, query, start, count, levelofdetail *Note: query keywords include actor, advisory, desc, mpaarating, title, etc. | XML file based on tvguide.dtd & tvprograms.dtd REPLAYERERROR.XML |

FIG. 15

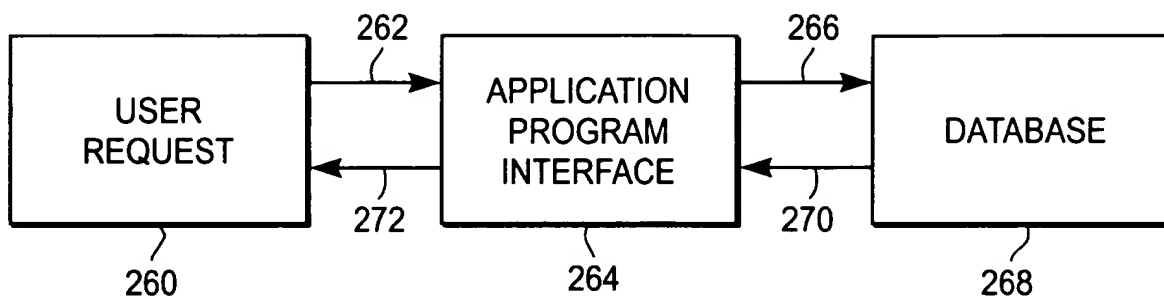


FIG. 16A

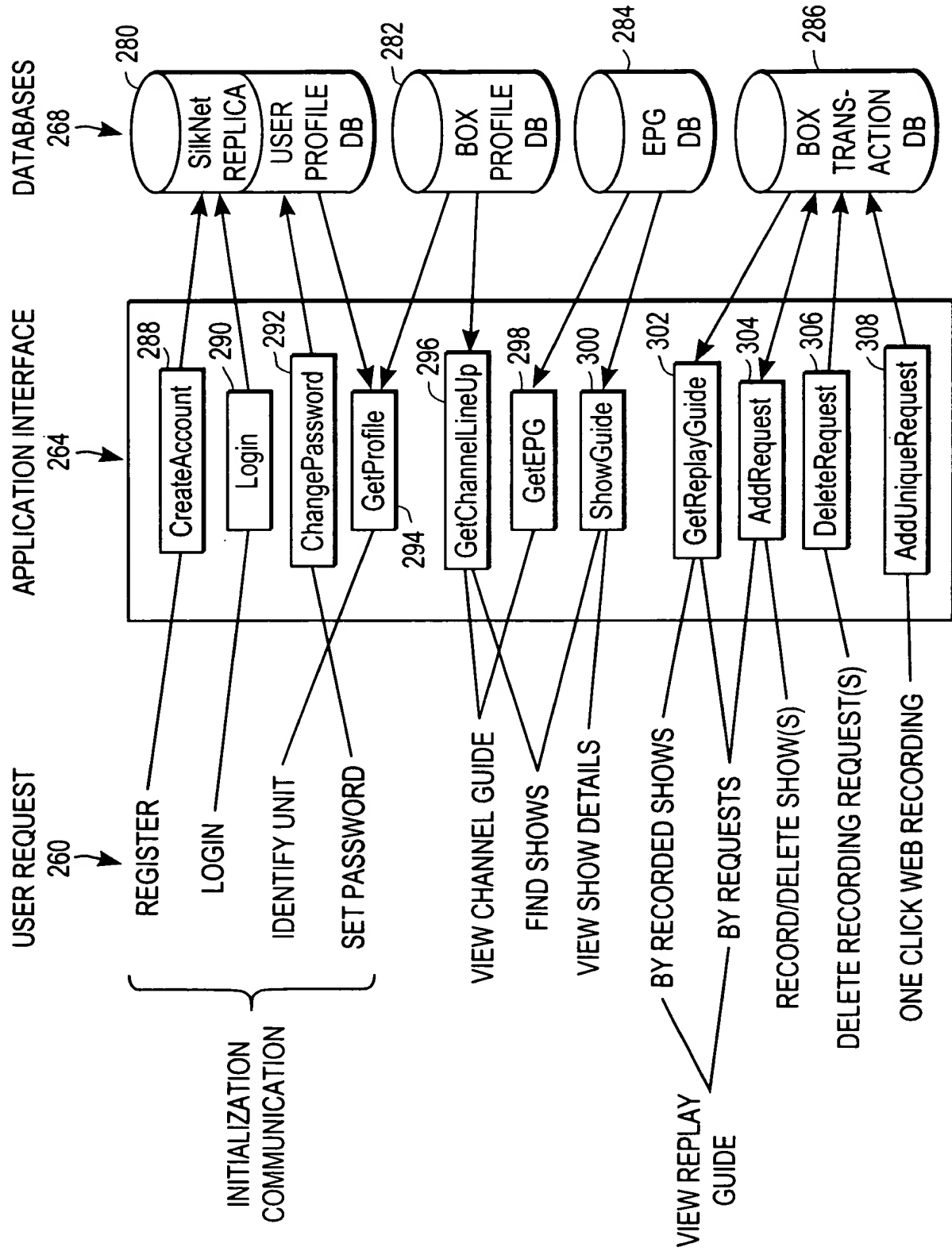


FIG. 16B

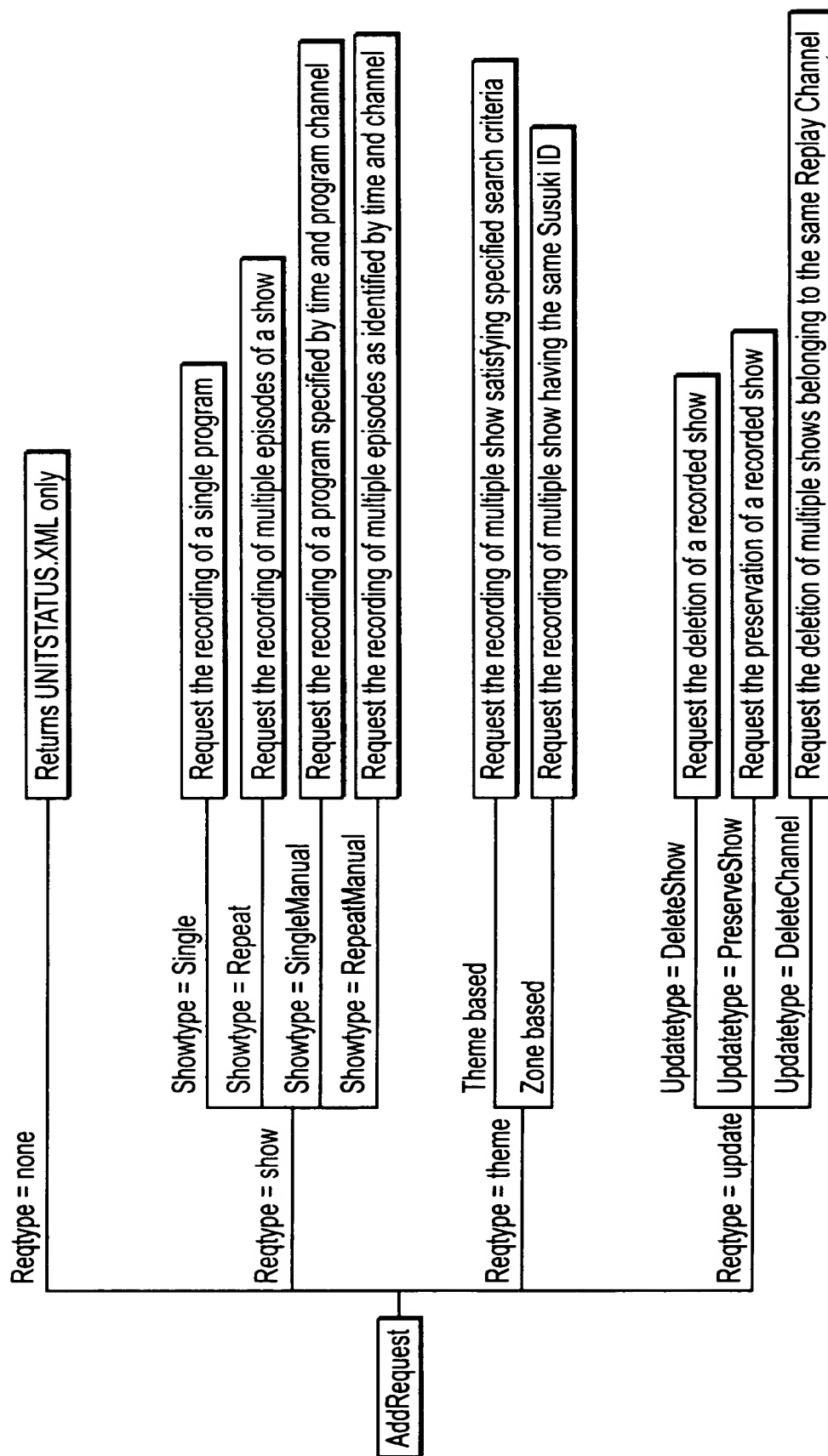
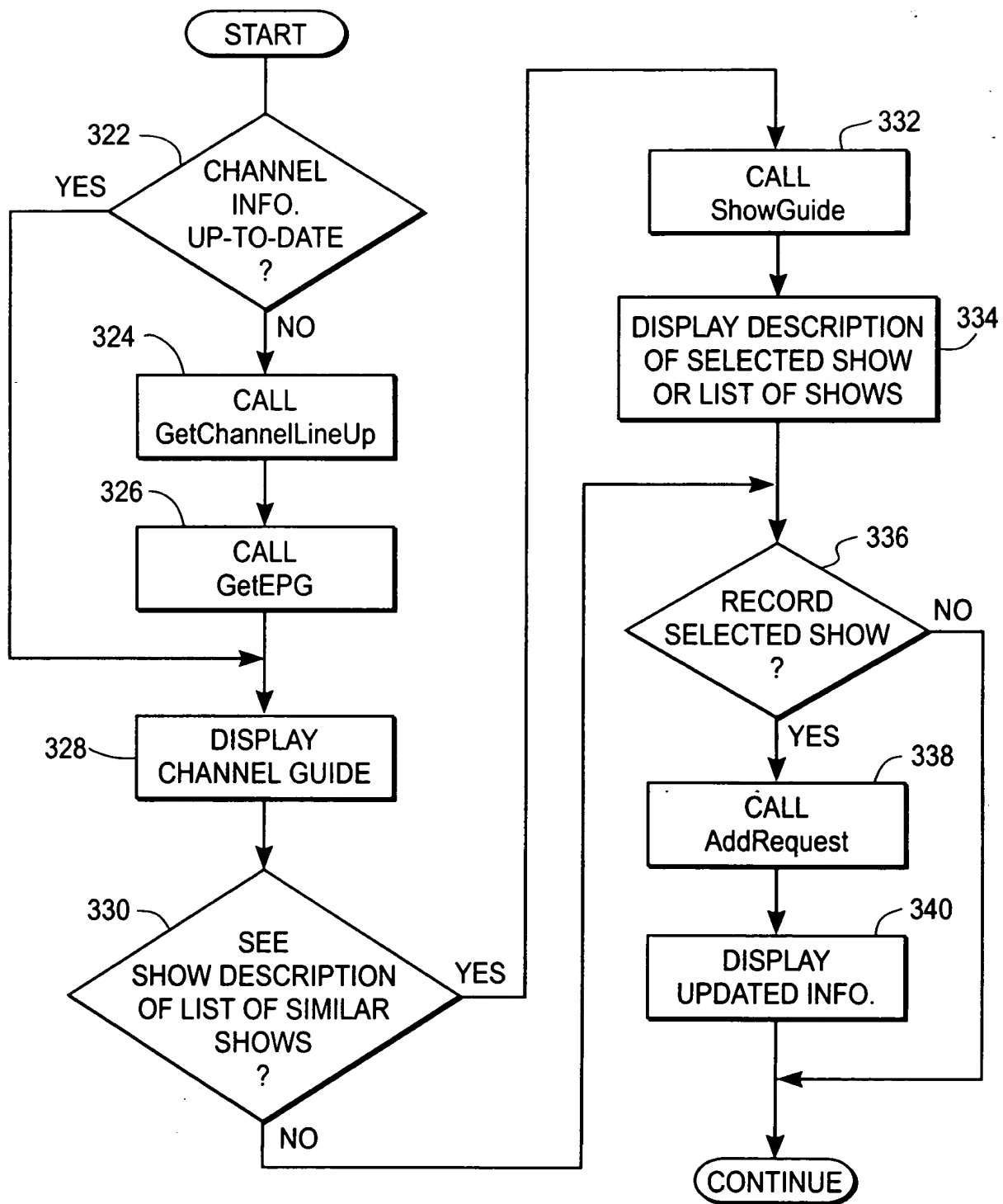


FIG. 17



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FIG. 18

myr replaytv®

Replay Guide

Replay Shows

Replay Channels

Channel Guide

Replay Guide

Find Shows

Preferences

Help

Logout

Manual Record

Review and edit your one time and recurring ReplayTV requests

Delete Selected Channels

| Channel | Details | Status | Request Date |
|---|---|--------|--------------|
| <input type="checkbox"/> A Fistful of Dollars | This single record Replay channel was scheduled to record A Fistful of Dollars from Channel 21 (TBS) on Sun, 02/18 at or around 7:00AM - 9:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record. | | 02/18 |
| <input type="checkbox"/> Blown Away | This single record Replay channel was scheduled to record Blown Away from Channel 42 (USAP) on Tue, 01/16 at or around 9:00PM - 11:30PM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record. | | 01/16 |
| <input type="checkbox"/> Cantonese News | This show-based Replay channel will continuously record the 1 most current episode(s) of Cantonese News occurring every (Sun, Mon, Tue, Wed, Thu, Fri, Sat) on Channel 8 (KTSF) at or around 8:00PM - 9:00PM. Guaranteed at EXTENDED quality. | | 02/28 |
| <input type="checkbox"/> Captain January | This single record Replay channel was scheduled to record Captain January from Channel 49 (AMC) on Tue, 01/09 at or around 3:30AM - 5:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record. | | 01/09 |

FIG. 19A

FIG. 19B

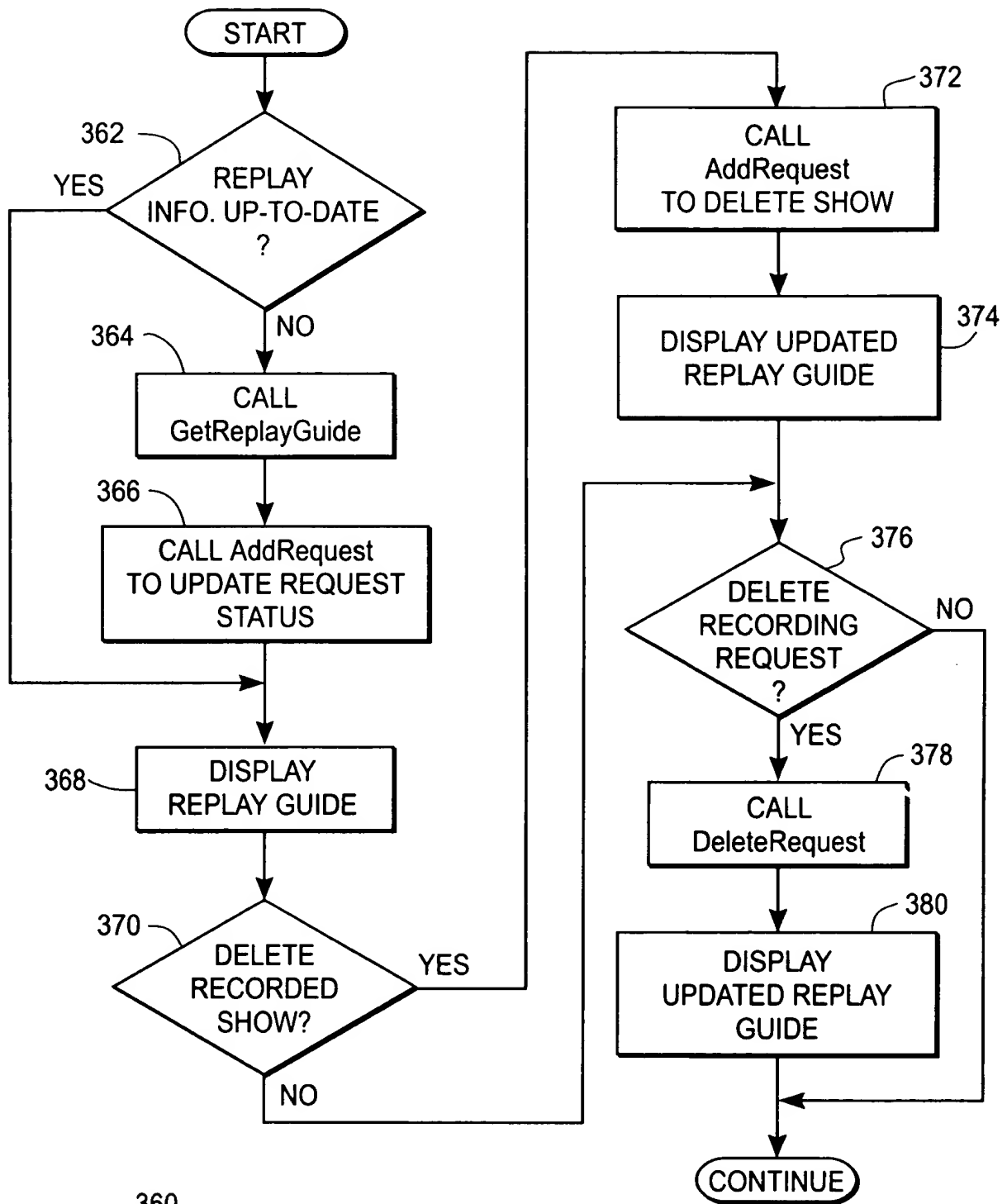


FIG. 20

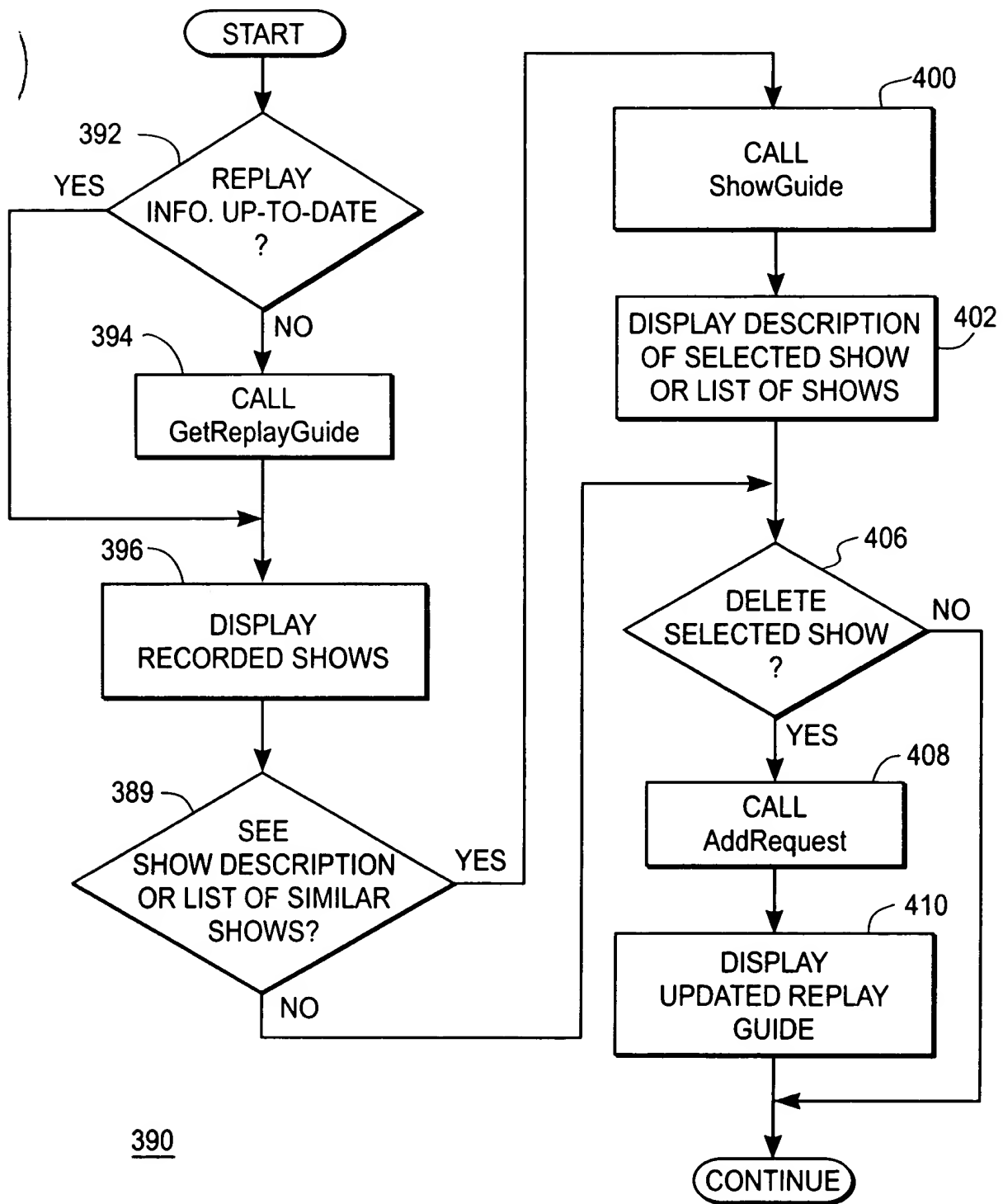


FIG. 21

my[®]r replaytv[®]

Channel Guide

Replay Guide

Find Shows

Preferences

Help

Logout

Manual Record

Find Shows

Find:

Enter the word or phrase that you wish to find.

In these categories:

☒ Show Titles

☐ Actors

☒ Descriptions

☐ Directors

Find Shows

Copyright Policy | Terms And Conditions | Privacy Policy | FAQ

FIG. 22

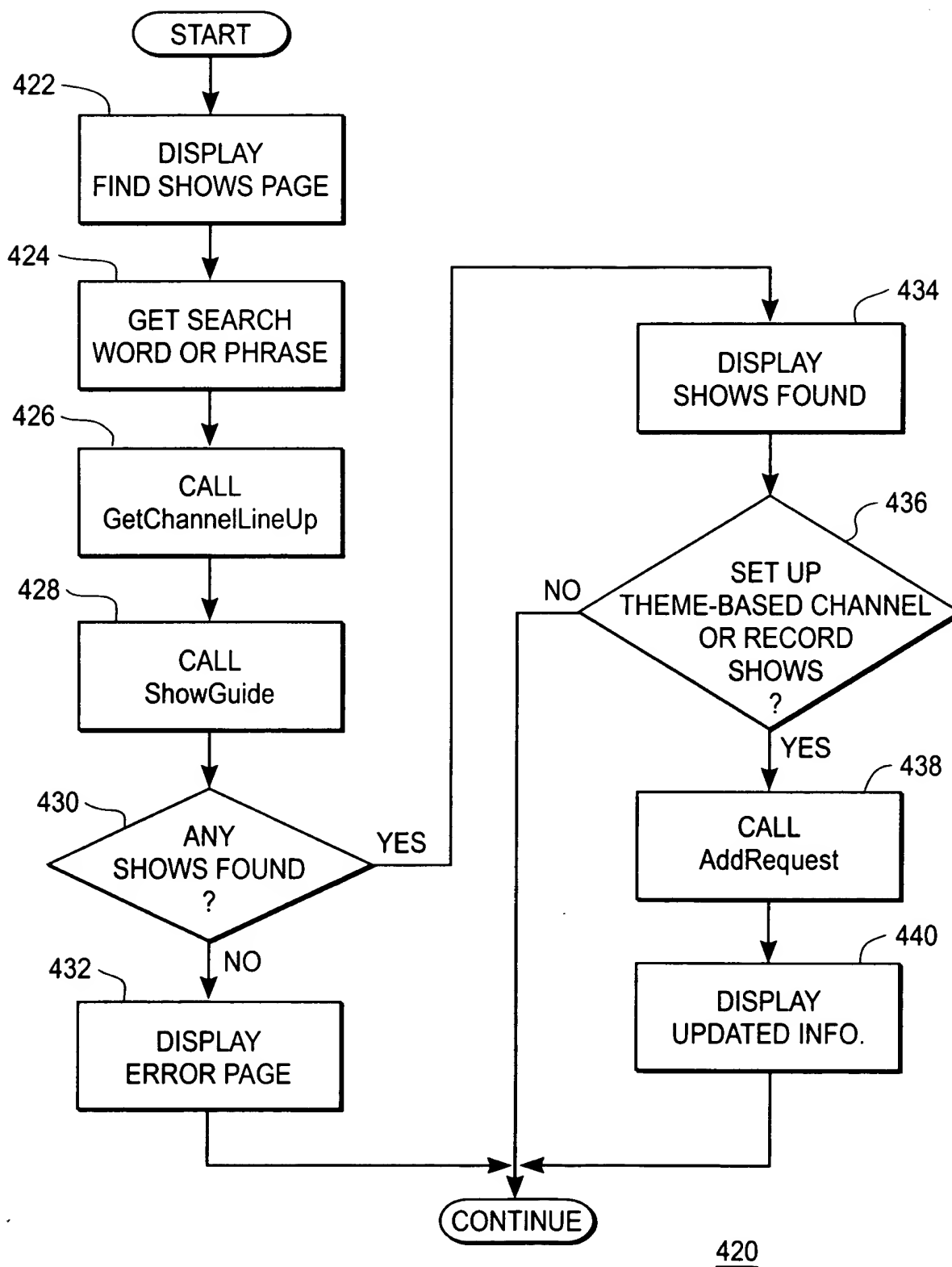


FIG. 23

my replaytv®

Channel GuideReplay GuideFind ShowsPreferencesHelpLogoutManual Record

Manual Record

Single RecordingRepeat Recording

Start Date

Mar72001

Start Time

:AM

End Time

:AM

Channel

0 OXYGEN

Quality

Extended

Guaranteed

Yes

Recording duration:

Submit Requests

Copyright Policy | Terms And Conditions | Privacy Policy | FAQ

my replaytv®

preferences
help
logout

Channel GuideFind ShowsManual RecordReplay Guide

Manual Record

Single RecordingRepeat Recording

3h 45m available at medium quality
as of last connection

Days

☐ Mon ☒ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Sun

Start Time

: :

Channel

Quality

Guaranteed

Submit Request

FIG. 24B

452

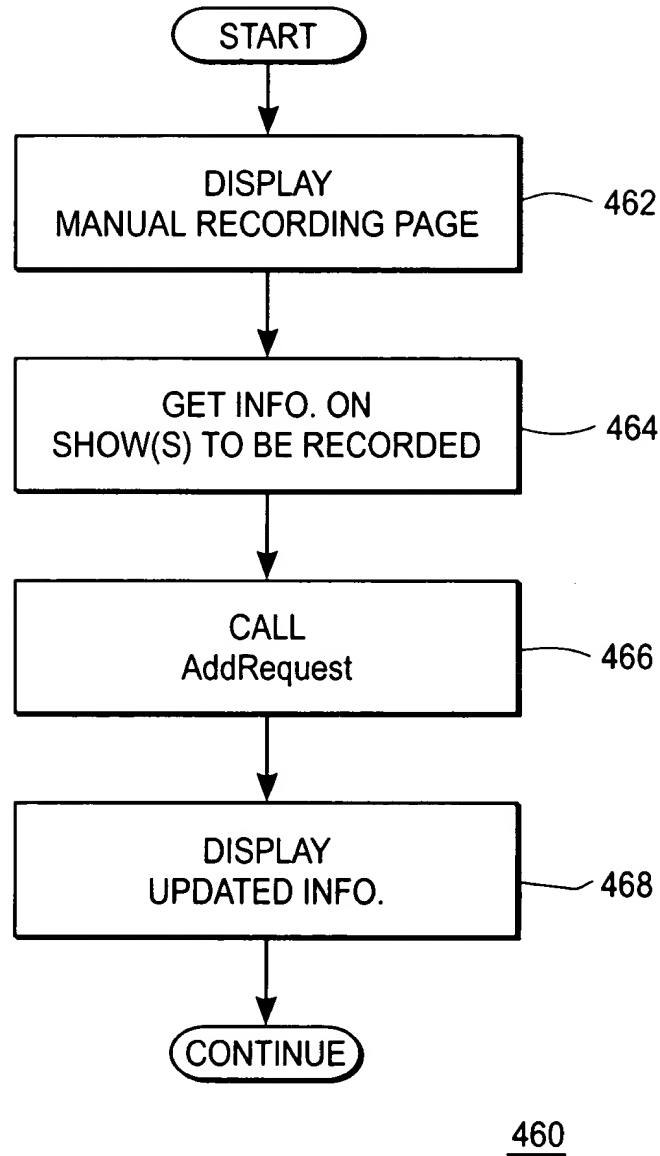
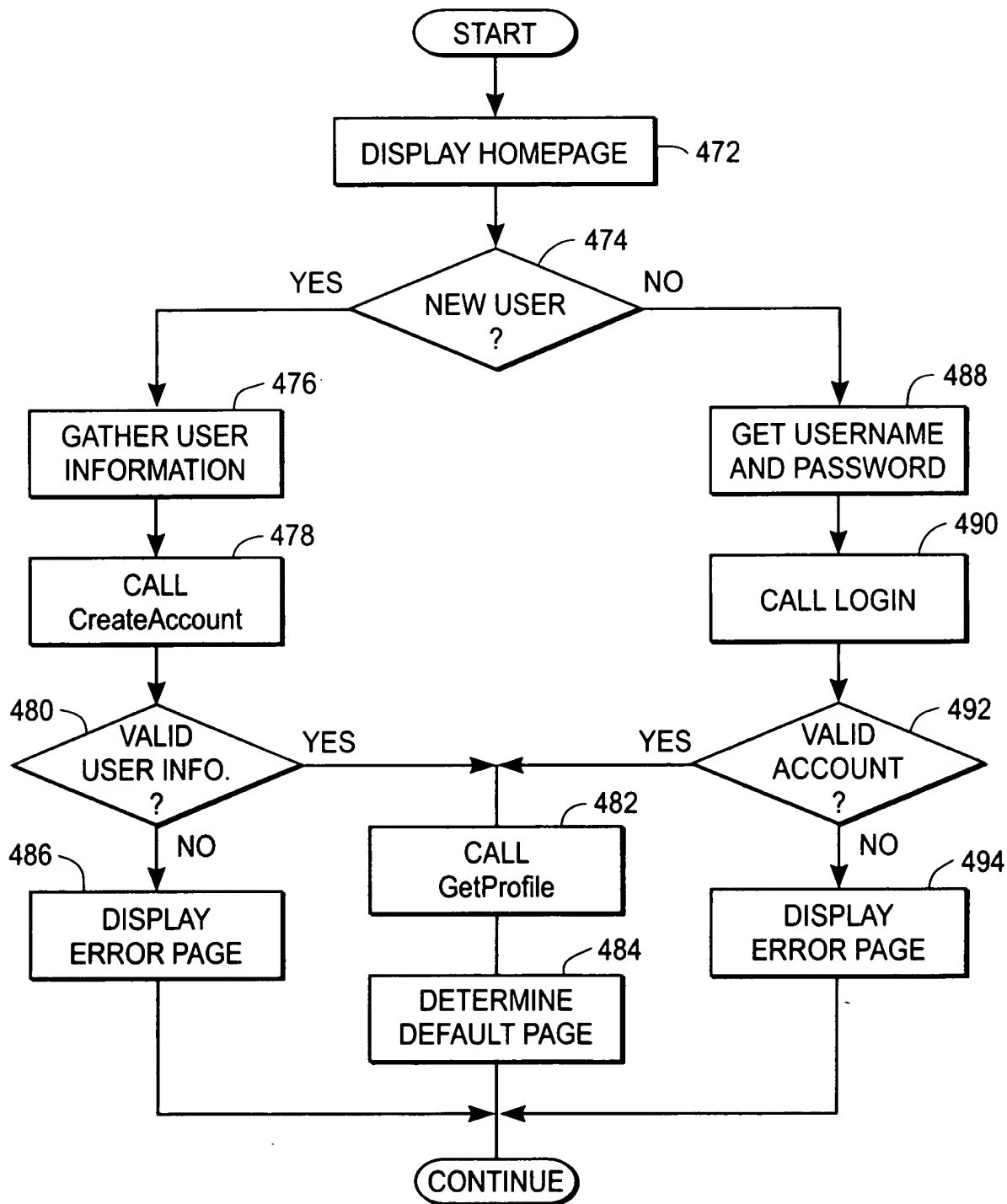


FIG. 25



470

FIG. 26

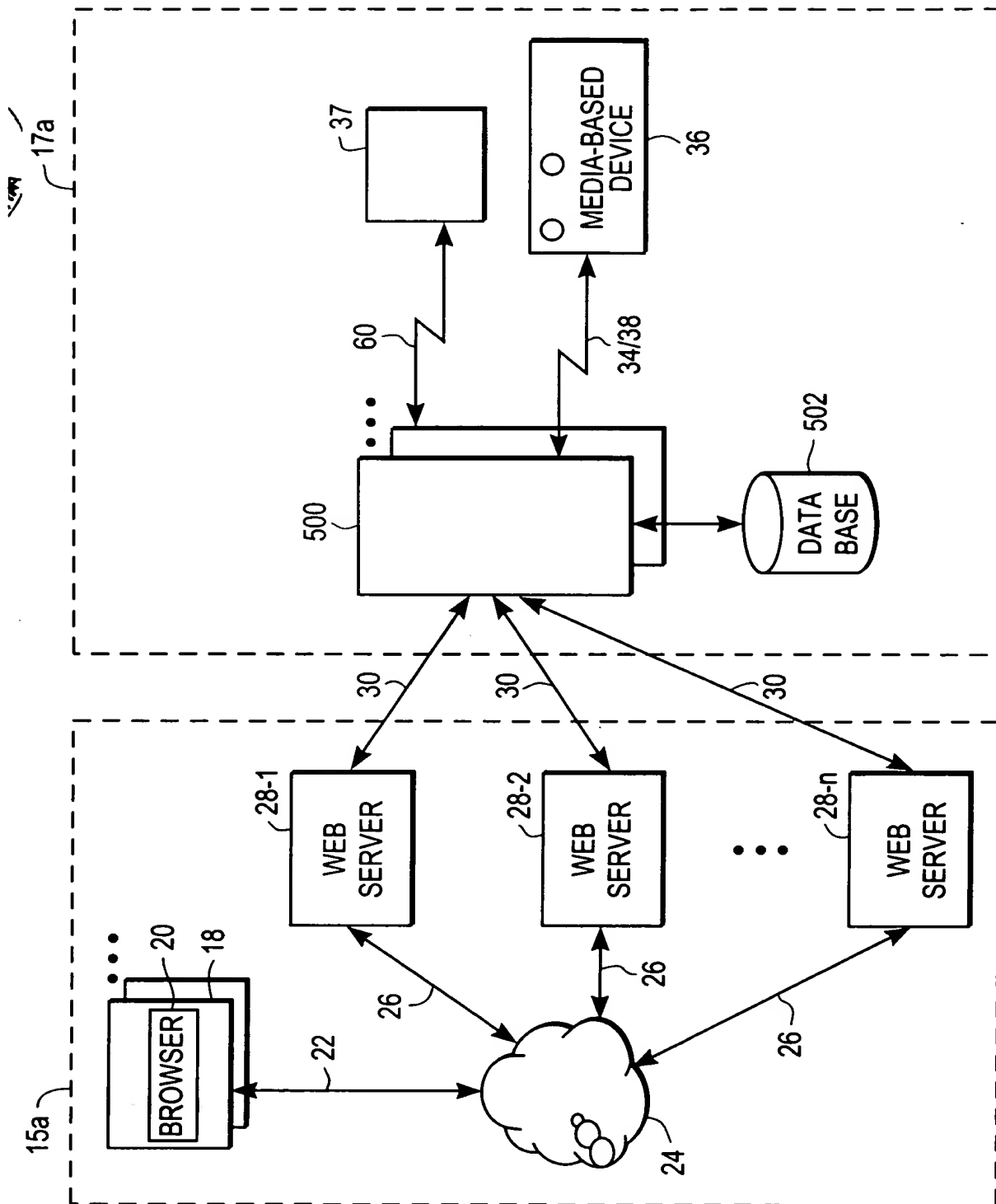


FIG. 27

19A

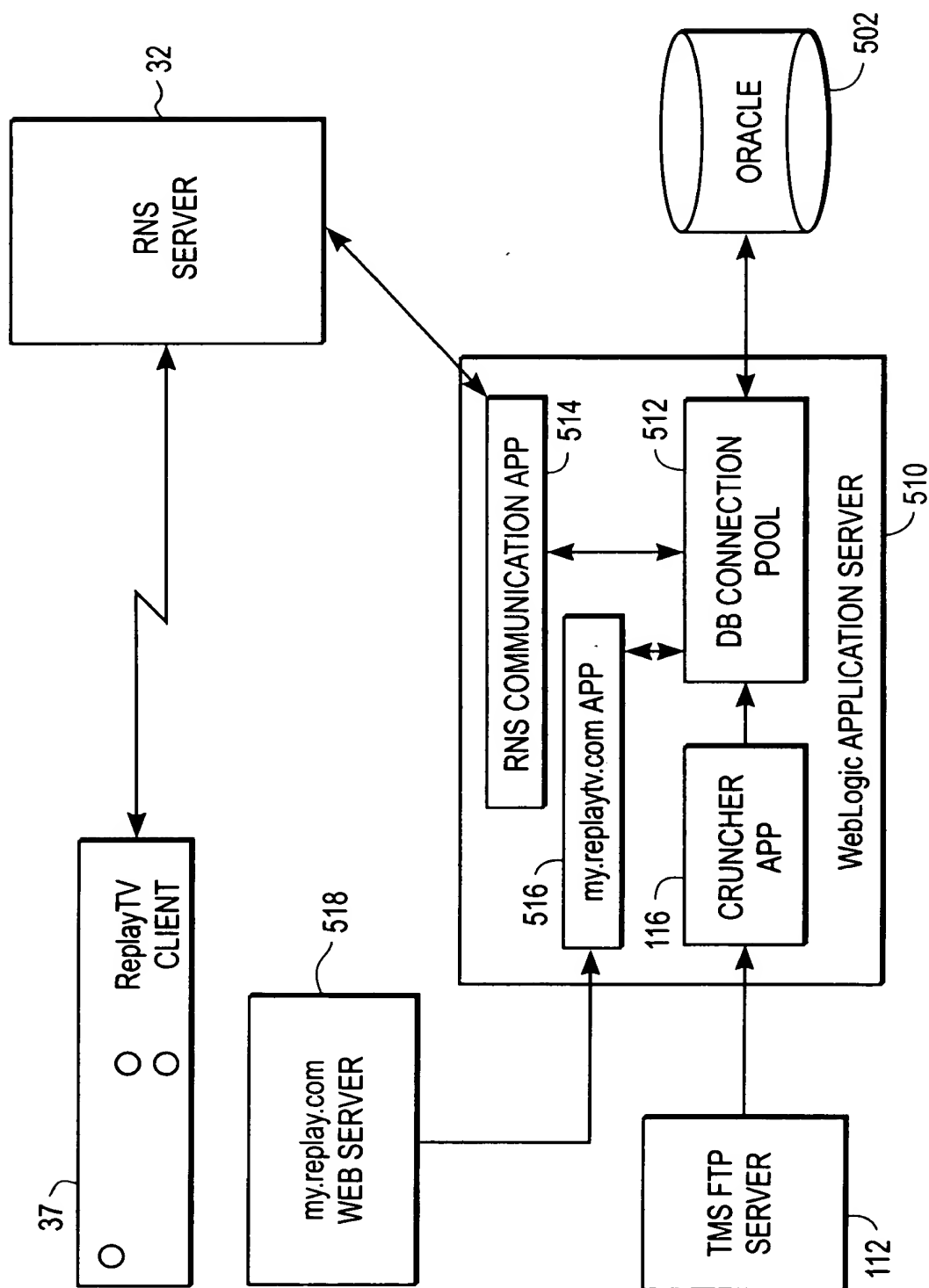


FIG. 28

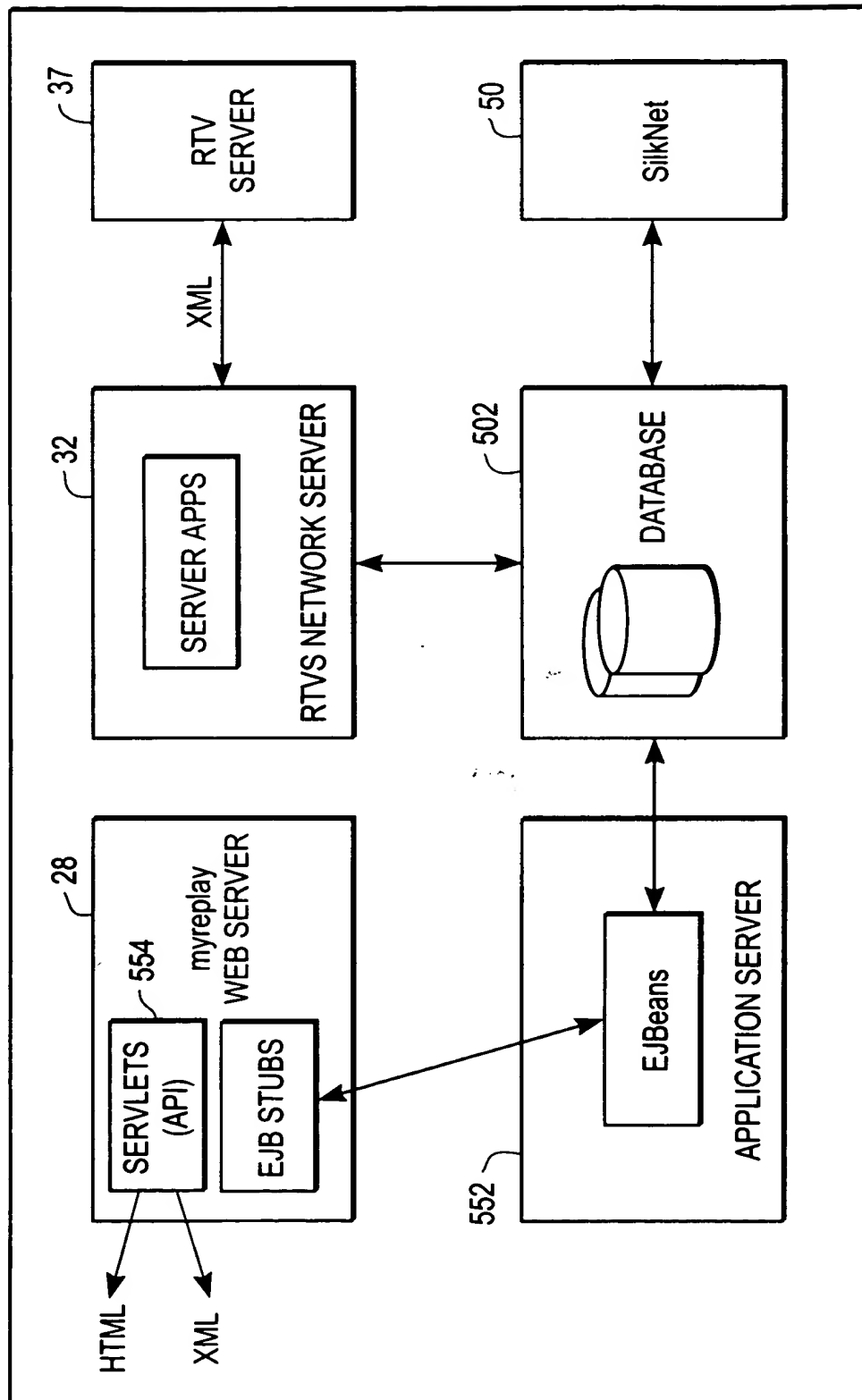


FIG. 29

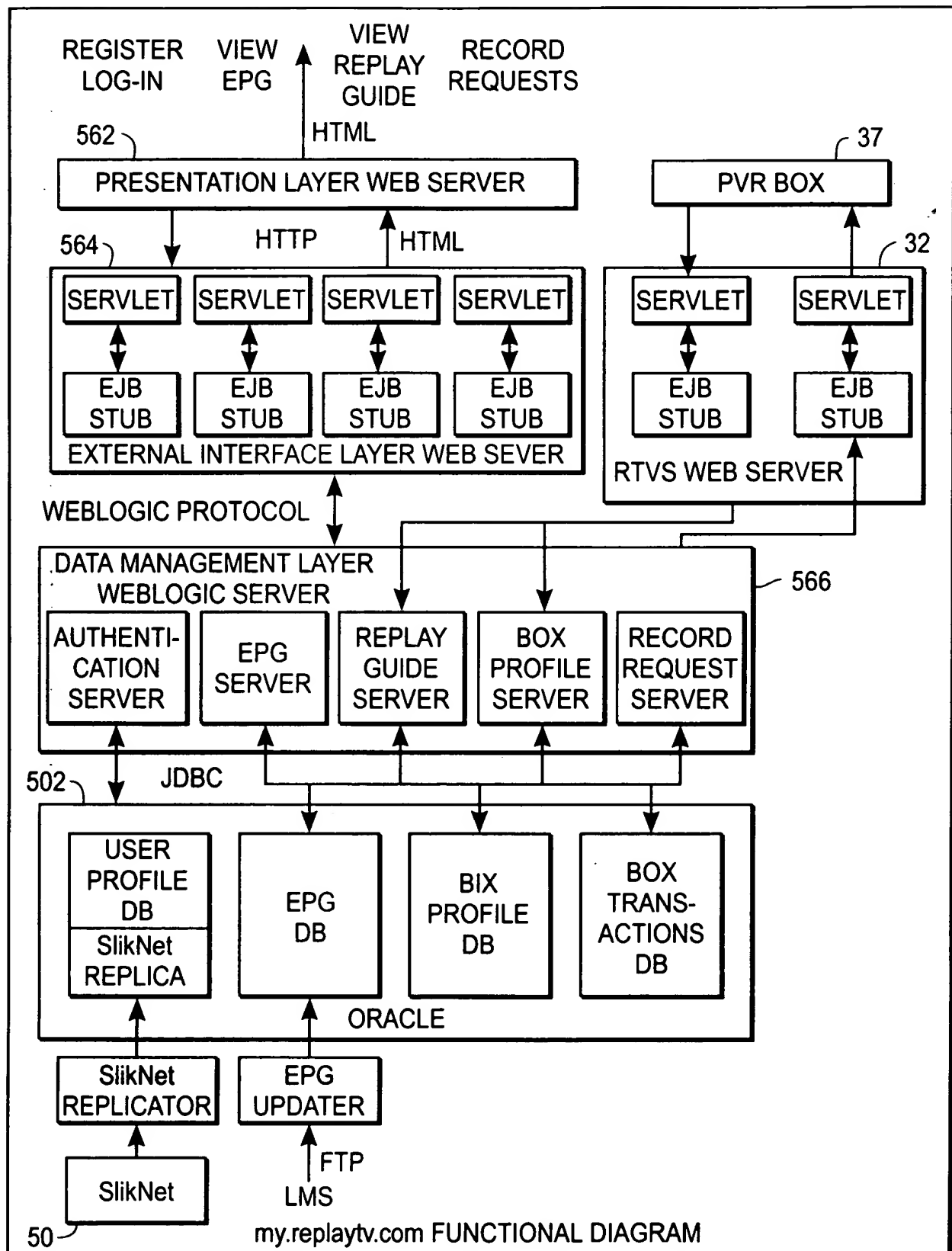


FIG. 30

560

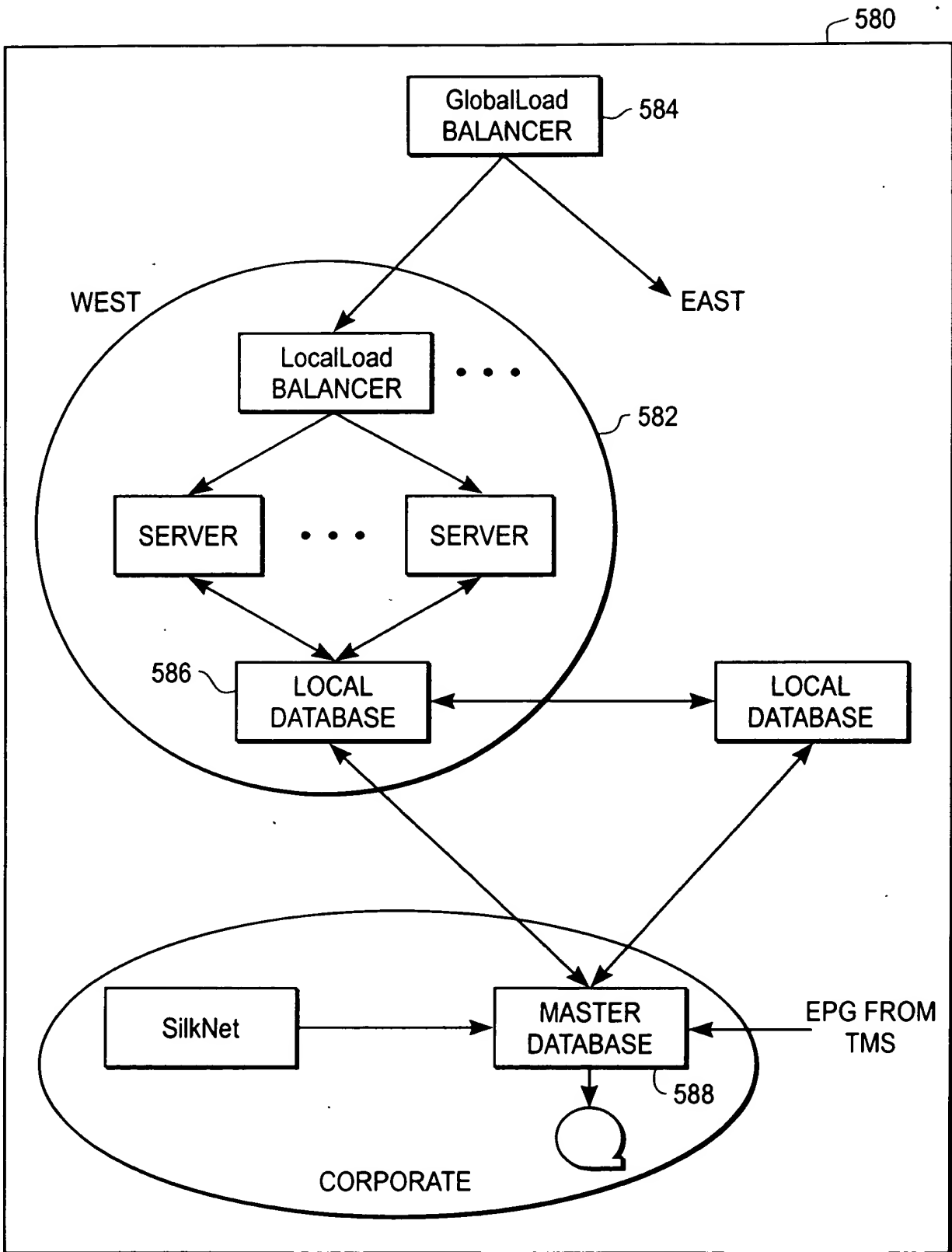


FIG. 31

604

www.fox.com

608

600

FOX

TONIGHT ON FOX

(P) 8 pm/7e That '70s Show

(P) 8:30pm/7:30e Greed: The Series

(P) 9pm/8e Ally McBeal Schedule

HERE IT COMES!

GREED IS GOOD

GREED

One of the Seven Deadly Sins was never so profitable. On tonight's '70's Theme Special Edition of Greed: The Series, only the most misery gets the largest prize in the history of game shows.

Family Guy

We know you've been hard up trying to find something to do since Family Guy went on hiatus (Brian fell off the wagon). Wait no longer! Family Guy returns Tuesday at 8:30 PM/7:30 C.

Don't miss the return of Get Real.

Wednesday at 1 PM/12C Always on FOX.com.

SHOWS

Ally McBeal
America's Most Wanted
COPS
Family Guy
Futurama
Get Real
Greed
Guinness World Record
King of the Hill
MAD
Malcolm in the Middle
Party of Five
That '70s Show
The Pls
The Simpsons
The World's Funniest
The X-Files
Time of Your Life
Titus
Wildcat Police Video
Upcoming Specials
NEVER BEEN KISS
Rent It & Win
Dreamy Prize

CONFIRMATION MESSAGE

FOX

Ally McBeal will be recorded on your ReplayTV system tonight at 9PM.

Thanks for using ReplayTV!



FIG. 32

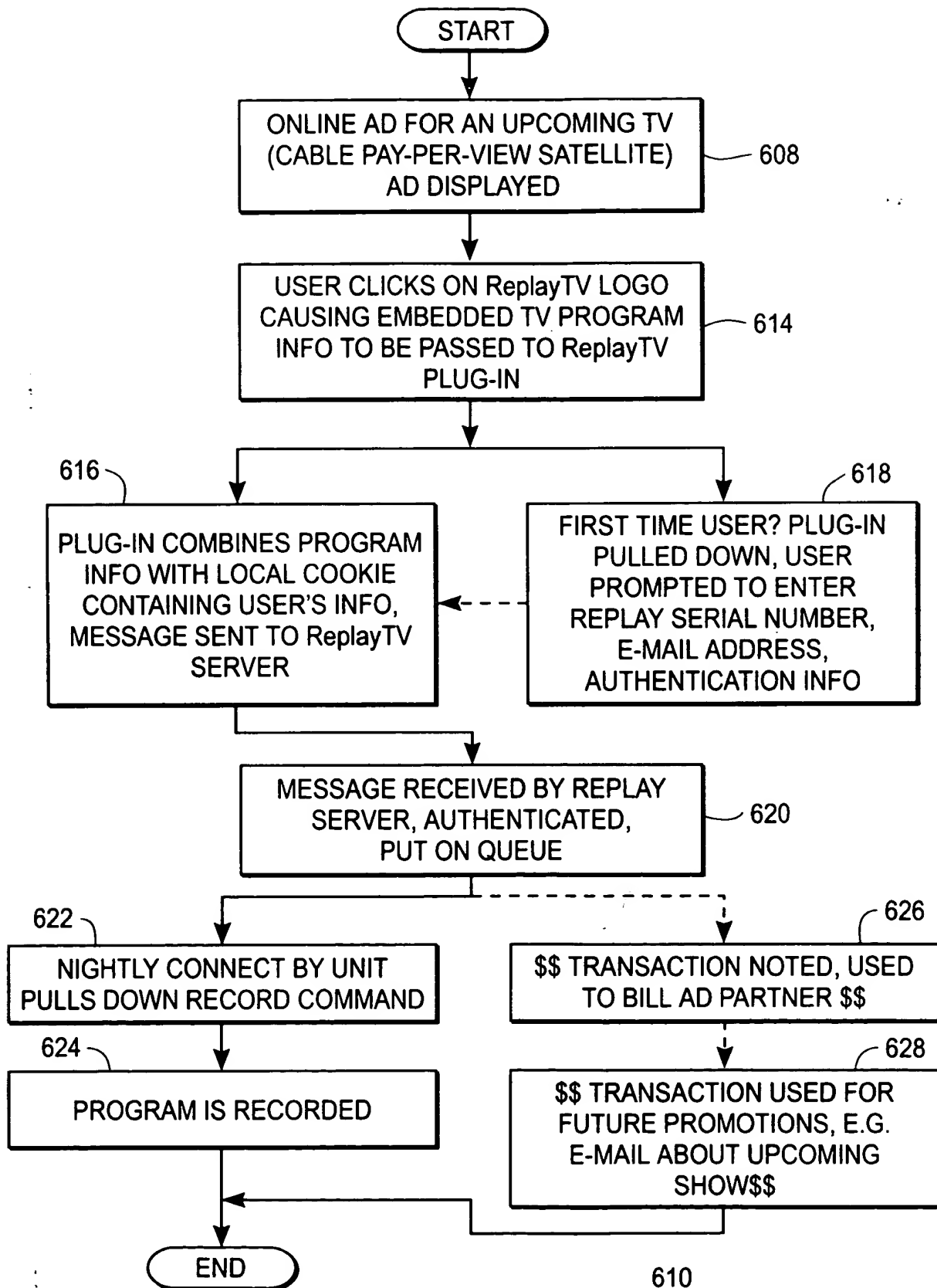


FIG. 33

610